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Wong, W.K.   Leung, V.C.M.
Dept. of Electr. & Comput. Eng., British Columbia Univ., Vancouver, BC;

Abstract:
In future wireless packet networks, it is anticipated that a wide variety of applications, ranging from WWW browsing to E-mail service, and real-time se like packetized voice and digital videoconference, will be supported with varyi levels of quality of service (QoS). There is a need for packet scheduling scher that effectively provide QoS guarantees and at the same time are simple to implement. This paper focuses on the scheduling of fixed sized packets or dat segments over the downlink of a TDMA/TDD wireless interface. The proposed scheduling mechanism is based on the token bank leaky bucket mechanism, integrates the policing and servicing functions and keeps track of the potentiz each connection. This results in lower packet delay, jitter and violation probal The performance is evaluated using computer simulations. The performance measures are packet delay, jitter, violation probability, degree of multiplexinc throughput. The trade-off between these parameters is exploited

Index Terms:
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Nelson L. S. Fonseca , Gilberto S. Mayor , Cesar A. V. Neto
ACM Transactions on Modeling and Computer Simulation (TOMACS) April 2000
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> This article presents a method for the computation of the equivalent bandwidth of an
> aggregate of heterogeneous self-similar sources, as well as the time scales of interest
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> similar sources, is introduced.

2 A comparative analysis of fuzzy versus conventional policing   98%
mechanisms for ATM networks
Vincenzo Catania , Giuseppe Ficili , Sergio Palazzo , Daniela Panno
IEEE/ACM Transactions on Networking (TON) June 1996
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3 Coordinated multihop scheduling: a framework for end-to-end services   97%
Chengzhi Li , Edward W. Knightly
IEEE/ACM Transactions on Networking (TON) December 2002
Volume 10 Issue 6
> In multihop networks, packet schedulers at downstream nodes have an opportunity to
> make up for excessive latencies due to congestion at upstream nodes. Similarly, when
> packets incur *low* delays at upstream nodes, downstream nodes can *reduce* priority and
> schedule other packets first. The goal of this paper is to define a framework for design
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> coordination. We first provide a general CMS definition which ...

4 Second moment resource allocation in multi-service networks   97%
Edward W. Knightly
ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1997 ACM SIGMETRICS international conference on Measurement and modeling of computer systems June 1997
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> A crucial problem for the efficient design and management of integrated services networks is how to best allocate network resources for heterogeneous and bursty traffic streams in multiplexers that support prioritized service disciplines. In this paper, we introduce a new approach for determining per-connection performance parameters such as delay-bound violation probability and loss probability in multi-service networks. The approach utilizes a traffic characterization consisting of the varianc ...

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Ramachandran Ramjee , Don Towsley , Ramesh Nagarajan
Wireless Networks March 1997
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> Two important Quality-of-Service (QoS) measures for current cellular networks are the fractions of new and handoff "calls" that are blocked due to unavailability of "channels" (radio and/or computing resources). Based on these QoS measures, we derive optimal admission control policies for three problems: minimizing a linear objective function of the new and handoff call blocking probabilities (MINOBJ), minimizing the new call blocking probability with a hard constrai ...

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Jeffrey M. Capone , Ioannis Stavrakakis
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12 Efficient (stack) algorithms for analysis of write-back and sector   89%
memories
James G. Thompson , Alan Jay Smith
ACM Transactions on Computer Systems (TOCS) January 1989
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> For the class of replacement algorithms known as stack algorithms, existing analysis
> techniques permit the computation of memory miss ratios for all memory sizes
> simultaneously in one pass over a memory reference string. We extend the class of
> computations possible by this methodology in two ways. First, we show how to
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Anwar I. Elwalid , Debasis Mitra
IEEE/ACM Transactions on Networking (TON) June 1993
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Danny Dolev , Cynthia Dwork , Orli Waarts , Moti Yung
Journal of the ACM (JACM) January 1993
Volume 40 Issue 1
> This paper studies the problem of perfectly secure communication in general network in
> which processors and communication lines may be faulty. Lower bounds are obtained
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> are obtained that operate with this connectivity and rely on no complexity-theoretic
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> network to simultaneously achieve the three goals of perfect secrecy, pe ...

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Proceedings of the 2001 ACM symposium on Applied computing March 2001

17 A framework for guaranteeing statistical QoS   87%
Martin Reisslein , Keith W. Ross , Srinivas Rajagopal
IEEE/ACM Transactions on Networking (TON) February 2002

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Continuous-media traffic (i.e., audio and video) can tolerate some loss but has rigid delay constraints. A natural QoS requirement for a continuous-media connection is a prescribed limit on the fraction of traffic that exceeds an end-to-end delay constraint. We propose and analyze a framework that provides such a statistical QoS guarantee to traffic in a packet-switched network. Providing statistical guarantees in a network is a notoriously difficult problem because traffic flows lose their orig ...

18 Channel carrying: a novel handoff scheme for mobile cellular networks   87%
Junyi Li , Ness B. Shroff , Edwin K. P. Chong
IEEE/ACM Transactions on Networking (TON) February 1999
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Nikos Passas , Lazaros Merakos , Dimitris Skyrianoglou , Frédéric Bauchot , Gérard Marmigère , Stéphane Decrauzat
Mobile Networks and Applications September 1998
Volume 3 Issue 3
The Medium Access Control (MAC) protocol defined in the Wireless ATM Network Demonstrator (WAND) system being developed within the project Magic WAND is presented. Magic WAND is investigating extensions of ATM technology to cover wireless customer premises networks, in the framework of the Advanced Communications Technologies and Services (ACTS) programme, funded by the European Union. The MAC protocol, known as MASCARA, uses a dynamic TDMA scheme, which combines reservation- and contention ...

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Victor L. Voydock , Stephen T. Kent
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↑ **ABSTRACT**

This article presents a method for the computation of the equivalent bandwidth of an aggregate of heterogeneous self-similar sources, as well as the time scales of interest for queueing systems fed by a fractal Brownian motion (fBm) process. Moreover, the fractal leaky bucket, a novel policing mechanism capable of accurately monitoring self-similar sources, is introduced.

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